

TOSHIBA PORTEGE 3020CT Specifications

FEATURED SKU's		DESCRIPTION	
PAP302U-T2W8		P300, 10.4", 32MB, 6.4bb HDD, Modem, Windows 98 w/ dual linked Win95/98 Configuration Builder CD	
PAP302U-T2N4		P300, 10.4", 32MB, 6.4bb HDD, Modem, Windows NT Workstation 4.0	
PROCESSOR		Intel Pentium® 300Mhz (2.0V/2.5V) w/MMX Technology	
Integrated Coprocessor		Yes	
Processor Cache		32KB: (16KB code; 16KB data)	
External data bus width		64 bit	
External data/address bus speed		66 MHz	
LEVEL 2 (L2) CACHE		Yes: 512KB	
Data Memory Type		2 Mbit Pipelined Burst Synchronous SRAM	
Data Bus Width		64 Bit	
Access Time		8 ns	
Local Bus Clock Speed		66 MHz	
SYSTEM ARCHITECTURE		<u>Connecting Devices:</u>	
PCI (V.2.1) Bus: (32-bit, 33 MHz)		PC Card Slots; Infrared port; USB, KBC, Sound chip, HDD	
MEMORY: 64Mbit EDO DRAM, 3.3V			
Standard		32 MB	
Maximum		96 MB	
Speed		60ns	
Hyper Page mode memory access		Yes	
Data/address bus width		64 bit/32 bit	
Local Bus Clock Speed		66 MHz	
BIOS (4Mbit FLASH EPROM)		Yes: 512KB	
Supported standards		APM (V.1.2); ACPI (V.1.0); PnP 1.0a ;VESA (V.2.0); DPMS, DCC, DMI (V.2.0)	
DISPLAY			
Type		10.4" Diagonal TFT Active Matrix Color, 800 x 600	
Dot Pitch		0.264mm x .264mm	
Contrast Ratio		150:1 (Min)	
VIDEO			
Memory: EDO-DRAM		2MB (<i>integrated into Controller chip</i>)	
Speed		50ns	
Hyper Page mode support		Yes	
Controller Chip		NeoMagic (2160) w/128-bit Data Bus Width	
PCI Bus Architecture w/burst mode		Yes: 32-bit, 33 MHz	
Graphics Accelerator:		Yes: supports BiTBLT, H/W Cursor, Scaling	
Digital Video Accelerator:		Yes	
YUV-to-RGB color space conversion		Yes	
INTERNAL SUPPORT			
Full Screen (Using Stretch Utility)		640 x 480 x 16.7M colors	
Full Screen		800 x 600 x 16.7M colors	
Virtual Display mode		1024 x 768 x 64K colors	
EXTERNAL SUPPORT		Colors	<u>Vert. Refresh Rate (Non-Interlaced)</u>
640 x 480		16.7M colors	85 Hz
800 x 600		16.7M colors	85 Hz
1024 x 768		64K colors	75 Hz (interace)

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STORAGE		
HDD (2.5" Enhanced IDE)		6.4 billion bytes (13msec)
Height		8.45mm
Buffer		512KB
Burst Data Transfer Rate		Ultra DMA, PIO Mode 4
FDD (3.5" 1.44MB) -- External		Bundled
CD-ROM (Optional)		
5.25" 20X Max. speed		External using PC Card
KEYBOARD		
84 keys with Windows 95/98 support		Yes (full-size key caps; 2mm Travel)
Key Pitch		18mm
12 dedicated function keys		Yes
Cursor control (8 Keys, Inverted "T")		Yes
Numeric keypad (Integrated Overlay)		Yes
Integrated Pointing Device		AccuPoint™
EXPANSION SLOTS		
Two PC Card Slots		Yes: 1-right side & 1-left side
32-bit, 3.3V PC CardBus Support		Yes
16-bit, 5.0V PC Card Support		Yes
Internal Memory Slot (One only)		Yes
EXPANSION PORTS		LOCATION
One Power-in Jack		Yes: Rear of unit
One 132-pin expansion bus		Yes: Left side
One Universal Serial Bus (USB) port		Yes: Right side (Supports 127 devices. Throughput Rate: 12Mbps/sec.)
One Fast Infrared port (IrDA2.0: 4Mbps)		Yes: Right side
One External Floppy Drive port		Yes: Right side
Microphone (3.5mm mini jack, monoaural)		Yes: Right side
One Headphone (3.5mm mini jack, stereo)		Yes: Right side
One Noteworthy security lock port		Yes: Right side
I/O BAR (Port Expander)		(1) Standard: Connects to 132-pin expansion bus -- rear of unit
One 15-Pin RGB (SVGA video)		Yes
One 9-Pin Serial (16550 UART compliant)		Yes
One 25-Pin Parallel (8 bit ECP)		Yes
One (PS/2) 101 Keyboard/Mouse port		Yes: Supports use of Y-cable
Portege "Mini" I/O BAR Adapter		Connects to 132-pin expansion bus -- rear of unit
One (PS/2) 101 Keyboard/Mouse port		Yes: Supports use of Y-cable
One 15-Pin RGB (SVGA video)		Yes
POWER		
Autosensing External AC Adapter: PA2501U		3.94"L x 1.97"W x .98"D--- .46 lbs
Input (Voltage/Frequency)		100-240V; 50-60Hz
Output (Voltage/Amps)		15 VDC; 2.0A
Power Output (Watts)		30W
Battery Type: Li-Ion		<u>High Capacity Battery (Bundled)</u> <u>Lightweight Battery (Optional)</u>
Part Number		PA2458UR PA2457UR
Capacity		10.8V, 2600mAh 10.8V, 1300mAh
Battery Life (Full/Low)		2.6 hrs./3.8 hrs 1.3 hrs./1.9 hrs
Recharge Time (Computer Off/On)		6 hrs./12 hrs. 3 hrs./6 hrs.
Dimensions		8.16"(L)x1.6"(H)x.79"(W) 8.16"(L)x.86"(H)x.79"(W)
Power Saving Features		APM v.1.2 BIOS, Processing speed change, Auto Resume, Hibernation, LCD Brightness switch (software)

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PC Card MODEM (Bundled) -- (All Models)		3Com-Noteworthy 56K PC Card Modem (XJ1560)
Data support		
Protocols supported		Bell-103 & 212A, V.21, V.23, V.22, V.22bis, V.32, V.32bis, V.34, V.34+, V.90
Error correction		V.42
Data compression		V.42 bis
Fax support		Group 3, EIA Class 1, EIA Class 2.0
Protocols supported		V.17, V.21 Channel 2, V.27 ter, V.29
Features		X-Jack Connector, Flash DSP/Flash ROM, Digital Line Guard, Hot Swapping, Intelligent Auto Install
SOUND SYSTEM		Yamaha Sound System
Chipsets:		Yamaha OPL3-SA3
16-bit stereo audio playback/record		Yes
Maximum Sampling Rate		44.1 kHz
FM Synthesis support		Yes
Full duplex support		Yes
Built-in Speaker		Yes (monaural, located on left side under palm rest)
Built in Microphone		Yes (monaural, located on right side)
3D Sound support		Yes: when connected to stereo speakers
Sound formats supported:		SoundBlaster Pro™ V3.01, MIDI, Windows Sound System V2.0
DIMENSIONS		10.12"W x .78"H x 8.5"D
WEIGHT		2.9 lbs. (with Enhanced battery)
BUNDLED SOFTWARE		(Windows 98 models)
Windows 98; Ring Zero Ring Central; Toshiba Controls (Power Saver, Hibernation, Quick Hibernation, Hotkey, HW Setup); Direct X 6.0; America On Line Update; AT&T WorldNet® Service; Yahoo; Quicken Basic 99; Intel Indeo Video; Microsoft NetMeeting; Symantec Norton Antivirus Scanner; User's Guide		
<i>Additional Software on Configuration Builder CD:</i> DMI utility; SMS Connect		
<i>CD's Included: Dual-Linked Windows 98/95 Configuration Builder CD</i>		
BUNDLED SOFTWARE		(Windows NT models)
Windows NT 4.0, Service Pack 3; Yamaha Audio Rack; Microsoft Internet Explorer v.3.02 (export version); Puma IntelliSync 97; Intel Indeo Video Interactive (32-bit, v.4.1); SystemSoft Card Wizard v.5.0;		
Toshiba Utilities (FN-Esse, Power Saver, HW Setup)		
<i>Additional Software on Configuration Builder CD:</i> Intel LANDesk Client Manager 3.3; Electronic manual;		
Microsoft Internet Explorer v4.01 (export version)		
CD's Included: Configuration Builder CD --- <i>Allows HDD restore, Create custom pre-install, &/or install of individual drivers, applications, or utilities.</i>		
SECURITY	Miscellaneous	Screen blank (by Hotkey), keyboard (by Hotkey)
	Lock mechanisms	Noteworthy cable lock
	Password security	Power-on, supervisor, HDD
WARRANTY		1 YR Parts & Labor (1 YR Battery)
ENVIRONMENTAL SPECIFICATIONS		
	Operating	Non-operating
Temperature	41°F (5°C) to 95°F (35°C)	-4°F (-20°C) to 149°F (65°C)
Thermal Gradient: 20° C per hour (max.)	N/A	N/A
Relative Humidity	20% to 80% non-condensing	10% to 90% non-condensing
Altitude:	-197 to 9,843ft. (-60 to 3000m)	-197 to 32,808ft. (-60 to 10,000m)
Shock:	10G; 1.5G w/CD-ROM installed	60G; 50G w/CD-ROM installed
Vibration:	0.5G; 0.25G w/CD-ROM installed	1G; 1G w/CD-ROM installed